

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	179	(virtual adj circuit) and (path adj3 information)	USPAT	OR	ON	2002/11/12 11:52
S2	15	(virtual adj circuit) and (path adj3 information) and (server) and (subscriber or client or user) and "709"/\$.cccls.	USPAT	OR	ON	2002/11/06 14:24
S3	19	(virtual adj circuit) and (path adj3 information) and (server) and (subscriber or client or user) and (VPI or VCI)	USPAT	OR	ON	2002/11/06 14:33
S4	117	"trusted" adj system	USPAT	OR	ON	2002/11/06 14:34
S5	2	("trusted" adj system) and (path adj3 information)	USPAT	OR	ON	2002/11/06 14:36
S6	21	(path adj3 information) and (security) and (subscriber or user or client) and (vci or vpi)	USPAT	OR	ON	2002/11/06 14:36
S7	67	(virtual adj circuit) and (path adj3 information) and (server) and (subscriber or client or user)	USPAT	OR	ON	2002/11/06 14:38
S8	57	(virtual adj circuit) and (path adj3 information) and (vci or vpi)	USPAT	OR	ON	2002/11/06 14:53
S9	149	(access adj3 server) and (path adj3 information)	USPAT	OR	ON	2002/11/06 14:53
S10	12	(access adj3 server) and (path adj3 information) and (vpi or vci)	USPAT	OR	ON	2002/11/06 15:10
S11	14	(access adj3 server) and (vpi or vci) and (atm) and (virtual adj circuit)	USPAT	OR	ON	2002/11/06 15:34
S12	1	("6069895").PN.	USPAT; USOCR	OR	OFF	2002/11/06 15:24
S13	1	("6252878").PN.	USPAT; USOCR	OR	OFF	2002/11/06 15:24
S14	1	"5905781".PN.	USPAT	OR	OFF	2002/11/06 15:24
S15	1	"5867666".PN.	USPAT	OR	OFF	2002/11/06 15:27
S16	1	"5864542".PN.	USPAT	OR	OFF	2002/11/06 15:27
S17	1	"5859550".PN.	USPAT	OR	OFF	2002/11/06 15:28
S18	1	"5838994".PN.	USPAT	OR	OFF	2002/11/06 15:28
S19	1	"5838915".PN.	USPAT	OR	OFF	2002/11/06 15:28
S20	1	"5835725".PN.	USPAT	OR	OFF	2002/11/06 15:28
S21	1	"5835494".PN.	USPAT	OR	OFF	2002/11/06 15:28
S22	1	"5835036".PN.	USPAT	OR	OFF	2002/11/06 15:29
S23	1	"5822383".PN.	USPAT	OR	OFF	2002/11/06 15:29

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S24	1	"5740171".PN.	USPAT	OR	OFF	2002/11/06 15:29
S25	1	"5737526".PN.	USPAT	OR	OFF	2002/11/06 15:29
S26	1	"5740171".PN.	USPAT	OR	OFF	2002/11/06 15:29
S27	1	"5740176".PN.	USPAT	OR	OFF	2002/11/06 15:29
S28	1	"5742604".PN.	USPAT	OR	OFF	2002/11/06 15:29
S29	1	"5742604".PN.	USPAT	OR	OFF	2002/11/06 15:30
S30	1	"5742649".PN.	USPAT	OR	OFF	2002/11/06 15:30
S31	1	"5756280".PN.	USPAT	OR	OFF	2002/11/06 15:30
S32	1	"5764641".PN.	USPAT	OR	OFF	2002/11/06 15:32
S33	1	"5770950".PN.	USPAT	OR	OFF	2002/11/06 15:32
S34	1	"5787255".PN.	USPAT	OR	OFF	2002/11/06 15:32
S35	1	"5812618".PN.	USPAT	OR	OFF	2002/11/06 15:32
S36	1	"5796732".PN.	USPAT	OR	OFF	2002/11/06 15:32
S37	1	"5570360".PN.	USPAT	OR	OFF	2002/11/06 15:32
S38	1	"5631897".PN.	USPAT	OR	OFF	2002/11/06 15:33
S39	1	"5461640".PN.	USPAT	OR	OFF	2002/11/06 15:33
S40	1	"5444703".PN.	USPAT	OR	OFF	2002/11/06 15:33
S41	1	"5509006".PN.	USPAT	OR	OFF	2002/11/06 15:33
S42	16	(access adj server) and (vpi or vci) and (atm)	USPAT	OR	ON	2002/11/06 15:39
S43	31	(access adj server) and (path adj information)	USPAT	OR	ON	2002/11/06 15:46
S44	3	(access adj server) and (subscriber with (virtual adj circuit))	USPAT	OR	ON	2002/11/06 15:49
S45	7	(dslam) and (subscriber with (virtual adj circuit))	USPAT	OR	ON	2002/11/06 15:55
S46	1	(dslam) and (subscriber with (virtual adj circuit)) and (access\$3 adj server)	USPAT	OR	ON	2002/11/06 16:04
S47	0	(dslam) and (subscriber same (path adj information))	USPAT	OR	ON	2002/11/06 16:05
S48	1	(dslam) and (subscriber) and (path adj information)	USPAT	OR	ON	2002/11/06 16:06
S49	6	(dslam) and (vci or vpi)	USPAT	OR	ON	2002/11/06 16:11
S50	25	(dsl) and (vci or vpi)	USPAT	OR	ON	2002/11/06 16:14
S51	11	(subscriber) and (virtual adj circuit) and (vci or vpi) and (path adj information)	USPAT	OR	ON	2002/11/06 16:24
S52	29	(subscriber) and (virtual adj circuit) and (path adj information)	USPAT	OR	ON	2002/11/06 16:31

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S53	2392	access\$3 adj server	USPAT	OR	ON	2002/11/06 16:31
S54	521	(access\$3 adj server) and (subscriber)	USPAT	OR	ON	2002/11/06 16:31
S55	5	(access\$3 adj server) and (subscriber) and (index\$3 same (path))	USPAT	OR	ON	2002/11/06 16:37
S56	106	(access\$3 adj server) and (subscriber) and (atm) and (security)	USPAT	OR	ON	2002/11/06 16:38
S57	29	(access\$3 adj server) and (subscriber) and (atm) and (security) and (path with information)	USPAT	OR	ON	2002/11/06 16:57
S58	29	(access\$3 adj server) and (subscriber) and (atm or vci or vpi) and (security) and (path with information)	USPAT	OR	ON	2002/11/06 16:59
S59	58	(access\$3 adj server) and (atm or vci or vpi) and (security) and (path with information)	USPAT	OR	ON	2002/11/06 17:00
S60	0	(access\$3 adj server) and (atm or vci or vpi) and (subscriber) and (pirat\$3) and (path with information)	USPAT	OR	ON	2002/11/06 17:00
S61	0	(access\$3 adj server) and (atm or vci or vpi) and (subscriber) and (pirat\$3)	USPAT	OR	ON	2002/11/06 17:01
S62	16	(access\$3 adj server) and (subscriber) and (pirat\$3)	USPAT	OR	ON	2002/11/06 17:04
S63	20	(server) and (subscriber or client or user) and (virtual adj circuit) and (path adj information)	USPAT	OR	ON	2002/11/06 17:07
S64	16	(server) and (subscriber or client or user) and (virtual adj circuit) and (path adj information) and (atm or vci or vpi)	USPAT	OR	ON	2002/11/06 17:11
S65	3	(subscriber or client or user) and (virtual adj circuit) and (path adj information) and (atm or vci or vpi) and (line adj card)	USPAT	OR	ON	2002/11/07 10:20
S66	204	(subscriber or client or user) and (path adj information) and (atm or (virtual adj2 identifier))	USPAT	OR	ON	2002/11/07 10:21
S67	3	(subscriber or client or user) and (path adj information) and (atm or (virtual adj2 identifier)) and (access adj server)	USPAT	OR	ON	2002/11/07 10:28

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S68	22	(subscriber or client or user) and (path adj information) and (atm or (virtual adj2 identifier)) and (authenticat\$3)	USPAT	OR	ON	2002/11/07 10:36
S69	92	((subscriber or client or user) adj5 information) and (path adj information) and (atm or (virtual adj2 identifier))	USPAT	OR	ON	2002/11/07 16:15
S70	1	"5680396".PN.	USPAT	OR	OFF	2002/11/07 13:13
S71	1	"5539884".PN.	USPAT	OR	OFF	2002/11/07 13:13
S72	1	"5265091".PN.	USPAT	OR	OFF	2002/11/07 13:18
S73	1	"5440547".PN.	USPAT	OR	OFF	2002/11/07 13:18
S74	1	"5440551".PN.	USPAT	OR	OFF	2002/11/07 13:18
S75	1	"5490141".PN.	USPAT	OR	OFF	2002/11/07 13:19
S76	28	(port adj card) and ((vpi or vci) or (vitual adj3 identifier))	USPAT	OR	ON	2002/11/08 14:16
S77	0	(port adj card) and ((vpi or vci) or (vitual adj3 identifier)) and (access\$2 adj server)	USPAT	OR	ON	2002/11/07 16:32
S78	12	(port adj card) and (access\$2 adj server)	USPAT	OR	ON	2002/11/07 16:34
S79	4	(port adj card) and (access\$2 adj server) and atm	USPAT	OR	ON	2002/11/07 16:37
S80	6	(port adj card) and authenticat\$3 and atm	USPAT	OR	ON	2002/11/07 16:40
S81	4	(port adj card) and (path adj information) and atm	USPAT	OR	ON	2002/11/07 16:41
S82	28	(port adj card) and ((vpi or vci))	USPAT	OR	ON	2002/11/07 16:43
S83	32	(port adj card) and (path adj3 (identifier or information))	USPAT	OR	ON	2002/11/13 14:22
S84	1	("5539884").PN.	USPAT; USOCR	OR	OFF	2002/11/12 11:49
S85	2	((("6396838") or ("6400716"))).PN.	USPAT; USOCR	OR	OFF	2002/11/12 11:51
S86	10	(virtual adj circuit) and (path adj3 information) and ((ftp or radius) with protocol)	USPAT	OR	ON	2002/11/12 11:55
S87	0	(virtual adj circuit) and (path adj3 information) and ((radius) with protocol)	USPAT	OR	ON	2002/11/12 11:56
S88	5	(virtual adj circuit) and ((radius) with protocol)	USPAT	OR	ON	2002/11/12 11:57
S89	0	(virtual adj circuit) and ((radius and ftp) with protocol)	USPAT	OR	ON	2002/11/12 11:57

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S90	1	("5539884").PN.	USPAT; USOCR	OR	OFF	2002/11/13 14:48
S91	5	((("6252878") or ("5539884") or ("6396838") or ("6084892") or ("6400716"))).PN.	USPAT; USOCR	OR	OFF	2002/11/13 14:48
S92	7	((("9604729") or ("0677941"))).PN.	USOCR; EPO; JPO; DERWENT	OR	OFF	2003/03/26 14:55
S93	6	((("5115427") or ("5649108") or ("5239537") or ("6069895") or ("5617417") or ("5588003"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 16:19
S94	1	"5987521".PN.	USPAT	OR	OFF	2003/03/27 10:50
S95	1	"5649108".PN.	USPAT	OR	OFF	2003/03/27 10:51
S96	1	"5633866".PN.	USPAT	OR	OFF	2003/03/27 10:51
S97	1	"4905233".PN.	USPAT	OR	OFF	2003/03/27 10:52
S98	1	"5649108".PN.	USPAT	OR	OFF	2003/03/27 10:52
S99	1	"5452294".PN.	USPAT	OR	OFF	2003/03/27 10:52
S10 0	1	"4931941".PN.	USPAT	OR	OFF	2003/03/27 10:53
S10 1	1	("6084892").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 11:01
S10 2	1	"5995618".PN.	USPAT	OR	OFF	2003/03/27 11:01
S10 3	1	"5982870".PN.	USPAT	OR	OFF	2003/03/27 11:03
S10 4	1	"5978450".PN.	USPAT	OR	OFF	2003/03/27 11:03
S10 5	1	"5933490".PN.	USPAT	OR	OFF	2003/03/27 11:03
S10 6	1	"5790548".PN.	USPAT	OR	OFF	2003/03/27 11:04
S10 7	1	"5661791".PN.	USPAT	OR	OFF	2003/03/27 11:04
S10 8	1	"5255315".PN.	USPAT	OR	OFF	2003/03/27 11:04
S10 9	1	("6084892").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 14:45
S11 0	0	(US01/05439).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 16:19

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S11 1	1	("0105439").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 16:20
S11 2	0	(PCT/US01/05439).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/03/27 16:20
S11 3	920	(subscriber adj3 information) and ((path or interface) adj3 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 10:33
S11 4	95	((subscriber adj3 information) and ((path or interface) adj3 information)) and (virtual adj3 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 10:34
S11 5	244	((subscriber or user) adj3 information) and ((path or interface) adj3 information) and (virtual adj3 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 11:14
S11 6	75	((subscriber or user) adj3 information) and ((path or interface) adj3 information) and (virtual adj3 circuit)) and "709"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 13:11
S11 7	1	("6252878").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/06 10:55
S11 8	1	"6069895".PN.	USPAT	OR	OFF	2003/10/06 10:56
S11 9	1	"5905781".PN.	USPAT	OR	OFF	2003/10/06 10:57
S12 0	1	"5867666".PN.	USPAT	OR	OFF	2003/10/06 10:59
S12 1	1	"5864542".PN.	USPAT	OR	OFF	2003/10/06 11:00
S12 2	1	"5859550".PN.	USPAT	OR	OFF	2003/10/06 11:00
S12 3	1	"5852655".PN.	USPAT	OR	OFF	2003/10/06 11:01
S12 4	1	"5838994".PN.	USPAT	OR	OFF	2003/10/06 11:02
S12 5	1	"5838915".PN.	USPAT	OR	OFF	2003/10/06 11:02
S12 6	1	"5835725".PN.	USPAT	OR	OFF	2003/10/06 11:02
S12 7	1	"5822383".PN.	USPAT	OR	OFF	2003/10/06 11:02
S12 8	1	"5812618".PN.	USPAT	OR	OFF	2003/10/06 11:12

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S12 9	1	"5796732".PN.	USPAT	OR	OFF	2003/10/06 11:13
S13 0	1	"5787070".PN.	USPAT	OR	OFF	2003/10/06 11:13
S13 1	1	"5799017".PN.	USPAT	OR	OFF	2003/10/06 11:14
S13 2	1	"5546379".PN.	USPAT	OR	OFF	2003/10/06 11:14
S13 3	1	"5495483".PN.	USPAT	OR	OFF	2003/10/06 13:05
S13 4	1	"5477263".PN.	USPAT	OR	OFF	2003/10/06 13:05
S13 5	1	"5495483".PN.	USPAT	OR	OFF	2003/10/06 13:06
S13 6	236	((subscriber or user) adj3 information) and ((path or interface) adj3 information) and (virtual adj3 circuit)) and switch\$3	US-PGPUB; USPAT	OR	ON	2003/10/06 13:12
S13 7	62	((subscriber or user) adj3 information) and ((path or interface) adj3 information) and (virtual adj3 circuit)) and (access\$3 adj3 server)	US-PGPUB; USPAT	OR	ON	2003/10/06 13:18
S13 8	16139	((path or interfac\$3) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 13:19
S13 9	31	(stor\$3 near4 ((path or interfac\$3) adj2 information)) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 13:40
S14 0	1	"4677609".PN.	USPAT	OR	OFF	2003/10/06 13:35
S14 1	1	"4656624".PN.	USPAT	OR	OFF	2003/10/06 13:35
S14 2	371	(switch) and (stor\$3 near5 ((client or user or subscriber) adj2 information)) and ((path or interfac\$3) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 13:41
S14 3	18	((switch) and (stor\$3 near5 ((client or user or subscriber) adj2 information)) and ((path or interfac\$3) adj2 information)) and (virtual adj3 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 13:47
S14 4	84	((switch) and (stor\$3 near5 ((client or user or subscriber) adj2 information)) and ((path or interfac\$3) adj2 information)) and "709"/\$.cccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 14:07

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S14 5	2020	((path or interfac\$3) adj2 information) and ((client or user or subscriber) adj2 information) and (security)	US-PGPUB; USPAT	OR	ON	2003/10/06 14:08
S14 6	274	((path or interfac\$3) adj2 information) and ((client or user or subscriber) adj2 information) and (security near5 check\$3)	US-PGPUB; USPAT	OR	ON	2003/10/06 14:13
S14 7	12	((path or interfac\$3) adj2 information) and ((client or user or subscriber) adj2 information) and (security near5 check\$3)) and (virtual adj3 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 14:09
S14 8	53	((path or interfac\$3) adj2 information) and ((client or user or subscriber) adj2 information) and (security near5 check\$3) and "709"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 14:38
S14 9	1	"6320875".PN.	USPAT	OR	OFF	2003/10/06 14:19
S15 0	1	"6103713".PN.	USPAT	OR	OFF	2003/10/06 14:19
S15 1	1	"6034963".PN.	USPAT	OR	OFF	2003/10/06 14:19
S15 2	1	"5889777".PN.	USPAT	OR	OFF	2003/10/06 14:19
S15 3	1	"5440551".PN.	USPAT	OR	OFF	2003/10/06 14:20
S15 4	23	(translat\$3 near3 table) and ((path or interfac\$3) adj2 information) and (virtual adj2 circuit) and ((client or user or subscriber) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 14:46
S15 5	104	((map\$4 or compar\$3) same (((path or interfac\$3) adj2 information) and ((user or client or subscriber) adj2 information)))	US-PGPUB; USPAT	OR	ON	2003/10/06 14:52
S15 6	105	((verif\$5 or check\$3) near4 ((path or interfac\$3) adj2 information))	US-PGPUB; USPAT	OR	ON	2003/10/06 14:53
S15 7	2	((verif\$5 or check\$3) near4 ((path or interfac\$3) adj2 information))) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 14:56
S15 8	27	((verif\$5 or check\$3) near4 ((path or interfac\$3) adj2 information))) and ((client or user or subscriber) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 15:03
S15 9	208	(interfac\$3 adj2 information) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 15:03

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S16 0	23	((interfac\$3 adj2 information) and (virtual adj2 circuit)) and (subscriber adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 15:08
S16 1	163	(path adj2 information) and (subscriber adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 15:09
S16 2	17	((path adj2 information) and (subscriber adj2 information)) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 15:12
S16 3	29	((path adj2 information) and (subscriber adj2 information)) and ("709"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:03
S16 4	1	("5115427").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/06 16:05
S16 5	13	((customer adj2 information)) and (path adj2 information) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:07
S16 6	161	((customer adj2 information)) and (path adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:17
S16 7	21	((customer adj2 information)) and (path adj2 information) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 16:14
S16 8	33	((customer adj2 information)) and (path adj2 information) and "709"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 16:14
S16 9	163	((subscriber adj2 information)) and (path adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:32
S17 0	62	((subscriber adj2 information)) and (path adj2 information) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 16:17
S17 1	0	(compar\$3 with (((path or interfac\$3) adj2 information) and (virtual adj2 circuit)))	US-PGPUB; USPAT	OR	ON	2003/10/06 16:34
S17 2	384	((((path or interfac\$3) adj2 information) and (virtual adj2 circuit)))	US-PGPUB; USPAT	OR	ON	2003/10/06 16:34
S17 3	236	(((((path or interfac\$3) adj2 information) and (virtual adj2 circuit)))) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 16:34
S17 4	32	(((((path or interfac\$3) adj2 information) and (virtual adj2 circuit)))) and (subscriber adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:35
S17 5	36	(((((path or interfac\$3) adj2 information) and (virtual adj2 circuit)))) and (customer adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:39

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S17 6	208	(interface adj2 information) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:30
S17 7	110	((interface adj2 information) and (virtual adj2 circuit)) and "370"/\$. ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 16:40
S17 8	92	((((interface adj2 information) and (virtual adj2 circuit)) and "370"/\$. ccls.) and table	US-PGPUB; USPAT	OR	ON	2003/10/06 16:40
S17 9	22	((((interface adj2 information) and (virtual adj2 circuit)) and "370"/\$. ccls.) and (switch\$3 near3 table)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:43
S18 0	106	((((interface adj2 information) and (virtual adj2 circuit)) and "370"/\$. ccls.) and (port or module or line)	US-PGPUB; USPAT	OR	ON	2003/10/06 16:43
S18 1	84	(((((interface adj2 information) and (virtual adj2 circuit)) and "370"/\$. ccls.) and (port or module or line)) and (customer or subscriber)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:24
S18 2	1	"6529479".PN.	USPAT	OR	OFF	2003/10/06 16:55
S18 3	1	"5930238".PN.	USPAT	OR	OFF	2003/10/06 17:19
S18 4	1	"6097722".PN.	USPAT	OR	OFF	2003/10/06 17:19
S18 5	1	"6104749".PN.	USPAT	OR	OFF	2003/10/06 17:19
S18 6	1	"6252877".PN.	USPAT	OR	OFF	2003/10/06 17:20
S18 7	1	"6314102".PN.	USPAT	OR	OFF	2003/10/06 17:21
S18 8	1	"6385203".PN.	USPAT	OR	OFF	2003/10/06 17:22
S18 9	1	"6407997".PN.	USPAT	OR	OFF	2003/10/06 17:23
S19 0	1	"6480487".PN.	USPAT	OR	OFF	2003/10/06 17:23
S19 1	1	"5699362".PN.	USPAT	OR	OFF	2003/10/06 17:23
S19 2	1	"5673290".PN.	USPAT	OR	OFF	2003/10/06 17:23
S19 3	49	(((((interface adj2 information) and (virtual adj2 circuit)) and "370"/\$. ccls.) and (port or module or line)) and (security)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:24

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S19 4	39	((interface adj2 information) and (virtual adj2 circuit)) and ((customer or subscriber) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:27
S19 5	26	((interface adj2 information) and (virtual adj2 circuit)) and (access adj2 server)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:28
S19 6	199	(path adj2 information) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:30
S19 7	142	(path adj2 information) and (virtual adj2 circuit) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 17:30
S19 8	85	((path adj2 information) and (virtual adj2 circuit) and "370"/\$.ccls.) and (slot or module)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:43
S19 9	1	"5627822".PN.	USPAT	OR	OFF	2003/10/06 17:32
S20 0	1	"5600638".PN.	USPAT	OR	OFF	2003/10/06 17:32
S20 1	1	"5559959".PN.	USPAT	OR	OFF	2003/10/06 17:32
S20 2	1	"5457678".PN.	USPAT	OR	OFF	2003/10/06 17:32
S20 3	34	((path adj2 information) and (virtual adj2 circuit) and "370"/\$.ccls.) and (user adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:45
S20 4	17	((path adj2 information) and (virtual adj2 circuit) and "370"/\$.ccls.) and (subscriber adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:45
S20 5	13	((path adj2 information) and (virtual adj2 circuit) and "370"/\$.ccls.) and (customer adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:48
S20 6	3457	(interfac\$3 adj2 information) and (user adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/06 17:49
S20 7	71	((interfac\$3 adj2 information) and (user adj2 information)) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/06 18:07
S20 8	1	"6181715".PN.	USPAT	OR	OFF	2003/10/06 17:52
S20 9	1	"6091722".PN.	USPAT	OR	OFF	2003/10/06 17:52
S21 0	1	"6084873".PN.	USPAT	OR	OFF	2003/10/06 17:53
S21 1	1	"6081517".PN.	USPAT	OR	OFF	2003/10/06 17:53
S21 2	1	"6075784".PN.	USPAT	OR	OFF	2003/10/06 17:53

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S21 3	1	"5999598".PN.	USPAT	OR	OFF	2003/10/06 17:54
S21 4	1	"5999565".PN.	USPAT	OR	OFF	2003/10/06 17:54
S21 5	1	"5978390".PN.	USPAT	OR	OFF	2003/10/06 17:54
S21 6	1	"5768351".PN.	USPAT	OR	OFF	2003/10/06 18:04
S21 7	1	"5828666".PN.	USPAT	OR	OFF	2003/10/06 18:05
S21 8	1	"5838682".PN.	USPAT	OR	OFF	2003/10/06 18:05
S21 9	1	"5841840".PN.	USPAT	OR	OFF	2003/10/06 18:06
S22 0	1	"5864747".PN.	USPAT	OR	OFF	2003/10/06 18:06
S22 1	1	"5864747".PN.	USPAT	OR	OFF	2003/10/06 18:06
S22 2	1	"5940479".PN.	USPAT	OR	OFF	2003/10/06 18:06
S22 3	1329	((path or interfac\$3) adj2 information) and (stor\$3 with ((user or subscriber or customer) adj2 information))	US-PGPUB; USPAT	OR	ON	2003/10/06 18:08
S22 4	21	((path or interfac\$3) adj2 information) and (stor\$3 with ((user or subscriber or customer) adj2 information))) and (virtual adj2 circuit) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/06 18:14
S22 5	8	renucci.in.	US-PGPUB; USPAT	OR	ON	2003/10/06 18:14
S22 6	1	"5764641".PN.	USPAT	OR	OFF	2003/10/06 18:24
S22 7	114	((path or interfac\$3) adj2 information) and (stor\$3 with ((user or subscriber or customer) adj2 information))) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 10:05
S22 8	5130	((path or interfac\$3) adj2 information) and ((user or customer or subscriber or client) adj2 information)	US-PGPUB; USPAT	OR	ON	2003/10/07 10:06
S22 9	3	((path or interfac\$3) adj2 information) and ((user or customer or subscriber or client) adj2 information)) and 370/403.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 10:10

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S23 0	479	((path or interfac\$3) adj2 information) and ((user or customer or subscriber or client) adj2 information)) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 10:12
S23 1	1	("5588003").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/07 10:11
S23 2	96	((path or interfac\$3) adj2 information) and ((user or customer or subscriber or client) adj2 information)) and (slot) and port and module and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 10:29
S23 3	59	(dslam or grandslam) and (information near5 table)	US-PGPUB; USPAT	OR	ON	2003/10/07 10:45
S23 4	0	"0113618"	EPO; JPO	OR	ON	2003/10/07 10:43
S23 5	1	("0113618").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/07 10:44
S23 6	0	("0113618").PN.	USOCR; EPO; JPO	OR	OFF	2003/10/07 10:44
S23 7	0	("wo113618").PN.	USOCR; EPO; JPO	OR	OFF	2003/10/07 10:44
S23 8	0	("wo113593").PN.	USOCR; EPO; JPO	OR	OFF	2003/10/07 10:45
S23 9	181	(dslam or grandslam) and ((customer or subscriber) near3 information)	US-PGPUB; USPAT	OR	ON	2003/10/07 11:08
S24 0	33	(dslam or grandslam) and ((customer or subscriber) near3 information) and ((path or interfac\$3) near3 information)	US-PGPUB; USPAT	OR	ON	2003/10/07 11:02
S24 1	1	"6259708".PN.	USPAT	OR	OFF	2003/10/07 10:48
S24 2	1	"6222829".PN.	USPAT	OR	OFF	2003/10/07 10:49
S24 3	1	"6181715".PN.	USPAT	OR	OFF	2003/10/07 10:49
S24 4	1	"6130879".PN.	USPAT	OR	OFF	2003/10/07 10:49
S24 5	1	"6125117".PN.	USPAT	OR	OFF	2003/10/07 10:50
S24 6	1	"6118780".PN.	USPAT	OR	OFF	2003/10/07 10:51
S24 7	1	"6118780".PN.	USPAT	OR	OFF	2003/10/07 10:54

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S24 8	1	"6091722".PN.	USPAT	OR	OFF	2003/10/07 10:54
S24 9	1	"6084873".PN.	USPAT	OR	OFF	2003/10/07 10:54
S25 0	1	"6081517".PN.	USPAT	OR	OFF	2003/10/07 10:54
S25 1	1	"6081517".PN.	USPAT	OR	OFF	2003/10/07 10:56
S25 2	1	"6075784".PN.	USPAT	OR	OFF	2003/10/07 10:57
S25 3	1	"5999598".PN.	USPAT	OR	OFF	2003/10/07 10:57
S25 4	1	"5999565".PN.	USPAT	OR	OFF	2003/10/07 10:57
S25 5	1	"5974043".PN.	USPAT	OR	OFF	2003/10/07 10:58
S25 6	1	"5949763".PN.	USPAT	OR	OFF	2003/10/07 10:58
S25 7	1	"5905781".PN.	USPAT	OR	OFF	2003/10/07 11:01
S25 8	1	"5848150".PN.	USPAT	OR	OFF	2003/10/07 11:02
S25 9	125	((dslam or grandslam) and (authenticat\$3 or autoriz\$3))	US-PGPUB; USPAT	OR	ON	2003/10/07 12:53
S26 0	53	((dslam or grandslam) and (authenticat\$3 or autoriz\$3)) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 12:50
S26 1	70	((dslam or grandslam) and (identif\$5 near5 (customer or subscriber or client or user))) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 11:14
S26 2	41	((dslam or grandslam) and (identif\$5 near5 (customer or subscriber or client or user))) and "709"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 11:14
S26 3	1	"6219792".PN.	USPAT	OR	OFF	2003/10/07 11:17
S26 4	1	"6212561".PN.	USPAT	OR	OFF	2003/10/07 11:18
S26 5	1	"6092724".PN.	USPAT	OR	OFF	2003/10/07 11:18
S26 6	1	"6092196".PN.	USPAT	OR	OFF	2003/10/07 11:18
S26 7	1	"6092196".PN.	USPAT	OR	OFF	2003/10/07 11:18

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S26 8	1	"5898780".PN.	USPAT	OR	OFF	2003/10/07 11:19
S26 9	1	"5864683".PN.	USPAT	OR	OFF	2003/10/07 11:19
S27 0	1	"5841120".PN.	USPAT	OR	OFF	2003/10/07 11:20
S27 1	1	"4897874".PN.	USPAT	OR	OFF	2003/10/07 11:20
S27 2	1	"6052803".PN.	USPAT	OR	OFF	2003/10/07 11:33
S27 3	1	"5958016".PN.	USPAT	OR	OFF	2003/10/07 11:38
S27 4	1	"5898780".PN.	USPAT	OR	OFF	2003/10/07 11:38
S27 5	1	"5857074".PN.	USPAT	OR	OFF	2003/10/07 11:39
S27 6	1	"5845070".PN.	USPAT	OR	OFF	2003/10/07 11:39
S27 7	1	"5835727".PN.	USPAT	OR	OFF	2003/10/07 11:40
S27 8	1	"5835036".PN.	USPAT	OR	OFF	2003/10/07 11:42
S27 9	1	"5793763".PN.	USPAT	OR	OFF	2003/10/07 11:42
S28 0	1	"5752242".PN.	USPAT	OR	OFF	2003/10/07 11:42
S28 1	1	"5752242".PN.	USPAT	OR	OFF	2003/10/07 11:42
S28 2	1	"5659542".PN.	USPAT	OR	OFF	2003/10/07 11:42
S28 3	1	"5691997".PN.	USPAT	OR	OFF	2003/10/07 11:44
S28 4	1	"5659542".PN.	USPAT	OR	OFF	2003/10/07 11:44
S28 5	1	"5440635".PN.	USPAT	OR	OFF	2003/10/07 11:44
S28 6	1	"5421006".PN.	USPAT	OR	OFF	2003/10/07 11:44
S28 7	1	"5319644".PN.	USPAT	OR	OFF	2003/10/07 11:45
S28 8	1	"5319644".PN.	USPAT	OR	OFF	2003/10/07 11:46
S28 9	1	"5241599".PN.	USPAT	OR	OFF	2003/10/07 11:46

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S29 0	1	"4962532".PN.	USPAT	OR	OFF	2003/10/07 11:46
S29 1	1	"4922486".PN.	USPAT	OR	OFF	2003/10/07 11:46
S29 2	1	"5835727".PN.	USPAT	OR	OFF	2003/10/07 11:47
S29 3	43	((dslam or grandslam) and (authenticat\$3 or authoriz\$3)) and "709"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 12:50
S29 4	32	(dslam or grandslam) and (authenticat\$3 or authoriz\$3) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/07 12:54
S29 5	125	(dslam or grandslam) and (authenticat\$3 or authoriz\$3)	US-PGPUB; USPAT	OR	ON	2003/10/07 12:54
S29 6	1	"6141687".PN.	USPAT	OR	OFF	2003/10/07 12:57
S29 7	1	"6119160".PN.	USPAT	OR	OFF	2003/10/07 12:57
S29 8	1	"6092196".PN.	USPAT	OR	OFF	2003/10/07 12:57
S29 9	1	"6092196".PN.	USPAT	OR	OFF	2003/10/07 12:58
S30 0	1	"6047376".PN.	USPAT	OR	OFF	2003/10/07 12:58
S30 1	1	"6044155".PN.	USPAT	OR	OFF	2003/10/07 13:00
S30 2	1	"6021496".PN.	USPAT	OR	OFF	2003/10/07 13:00
S30 3	1	"6011910".PN.	USPAT	OR	OFF	2003/10/07 13:01
S30 4	1	"6006334".PN.	USPAT	OR	OFF	2003/10/07 13:02
S30 5	1	"6006334".PN.	USPAT	OR	OFF	2003/10/07 13:02
S30 6	1	"5991810".PN.	USPAT	OR	OFF	2003/10/07 13:02
S30 7	1	"5699521".PN.	USPAT	OR	OFF	2003/10/07 13:02
S30 8	1	"5684950".PN.	USPAT	OR	OFF	2003/10/07 13:03
S30 9	162	(dslam or grandslam) and (identif\$5 near5 (customer or subscriber or client or user))	US-PGPUB; USPAT	OR	ON	2003/10/07 13:12
S31 0	1	"6381246".PN.	USPAT	OR	OFF	2003/10/07 13:10

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S31 1	1	"6345056".PN.	USPAT	OR	OFF	2003/10/07 13:10
S31 2	1	"6282191".PN.	USPAT	OR	OFF	2003/10/07 13:10
S31 3	1	"6282191".PN.	USPAT	OR	OFF	2003/10/07 13:11
S31 4	1	"6169735".PN.	USPAT	OR	OFF	2003/10/07 13:11
S31 5	1	"5917814".PN.	USPAT	OR	OFF	2003/10/07 13:11
S31 6	66	(dslam or grandslam) and ((verif\$5 or check\$3) near5 (user or client or subscriber or customer))	US-PGPUB; USPAT	OR	ON	2003/10/07 13:15
S31 7	143	(secure same access).ti.	US-PGPUB; USPAT	OR	ON	2003/10/07 13:15
S31 8	1	((secure same access).ti.) and (dslam or grandslam)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:18
S31 9	2	((secure same access).ti.) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 13:19
S32 0	22	((secure same access).ti.) and "709"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 13:29
S32 1	57	((secure same access).ti.) and (subscriber or customer)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:36
S32 2	125	((secure same access).ti.) and (interfac\$3 or path or port or module or slot)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:37
S32 3	123	((secure same access).ti.) and (interfac\$3 or path or port or module)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:37
S32 4	108	((secure same access).ti.) and (interfac\$3 or path)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:37
S32 5	46	((secure same access).ti.) and (path)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:45
S32 6	9	((secure same access).ti.) and (port) and (slot)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:47
S32 7	5174	secure near3 access	US-PGPUB; USPAT	OR	ON	2003/10/07 13:47
S32 8	14	(secure near3 access) and (dslam or grandslam)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:51
S32 9	578	(secure near3 access) and ((path or interfac\$3) adj3 information)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:52
S33 0	242	((secure near3 access) and ((path or interfac\$3) adj3 information)) and ((customer or subscriber) adj3 information)	US-PGPUB; USPAT	OR	ON	2003/10/07 13:52

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S33 1	10	((secure near3 access) and ((path or interfac\$3) adj3 information)) and ((customer or subscriber) adj3 information)) and "370"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 13:55
S33 2	41	((secure near3 access) and ((path or interfac\$3) adj3 information)) and ((customer or subscriber) adj3 information)) and "709"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/10/07 13:59
S33 3	15	((secure near3 access) and ((path or interfac\$3) adj3 information)) and ((customer or subscriber) adj3 information)) and (virtual adj2 circuit)	US-PGPUB; USPAT	OR	ON	2003/10/07 14:18
S33 4	9	lidinsky.in.	US-PGPUB; USPAT	OR	ON	2003/10/07 14:21
S33 5	4	Rajakarunanayake.in.	US-PGPUB; USPAT	OR	ON	2003/10/07 14:26
S33 6	114	(access adj2 server) and (dslam or grandslam)	US-PGPUB; USPAT	OR	ON	2003/10/07 16:46
S33 7	1	("4896319").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/07 17:05
S33 8	41	(dslam or grandslam) and radius	US-PGPUB; USPAT	OR	ON	2003/10/07 17:09
S33 9	132	radius adj2 protocol	US-PGPUB; USPAT	OR	ON	2003/10/07 17:09
S34 0	17	(radius adj2 protocol) near3 request\$3	US-PGPUB; USPAT	OR	ON	2003/10/07 17:34
S34 1	1	("6415313").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/07 17:46
S34 2	1	("4896319").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/07 18:01
S34 3	1	("5115427").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/08 16:48
S34 4	2	((("5999732") or ("5848423"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/08 16:48
S34 5	2	((("6023474") or ("5999518"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 11:38
S34 6	1	("5671216").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 11:41

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S34 7	0	("wo9604729").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/03/23 11:41
S34 8	0	("ep774180").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/03/23 11:46
S34 9	2	(access\$3 near4 server) and (pre\$\$assign\$3 near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 11:48
S35 0	228	(access\$3 near4 server) and (compar\$3 near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 11:48
S35 1	36	(access\$3 near4 server) and (compar\$3 near4 circuit) and (identif\$6 near4 connect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 11:52
S35 2	2304	(path near4 information) and (identif\$6 near4 connect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 11:53
S35 3	20	(compar\$3 near4 (path near4 information)) and (identif\$6 near4 connect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:13
S35 4	2	((("6023474") or ("5999518")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 13:55
S35 5	1	(compar\$3 near4 (path near4 information)) and (pre\$\$assign\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:13
S35 6	283	(compar\$3 near4 (path near4 information))	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:13
S35 7	5	(compar\$3 near4 (path near4 information)) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:21
S35 8	53	(compar\$3 near4 (path near4 information)) and (circuit near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:26
S35 9	39	(compar\$3 near4 (path near4 information)) and (circuit near4 information) and (pre\$\$assign\$3 or pre\$\$defin\$3 or pre\$\$determin\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:22
S36 0	4150	((path near4 information)) and (circuit near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:27
S36 1	174	((path near4 information)) and (circuit near4 information) and (identif\$7 near4 subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:27

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S36 2	44	((path near4 information)) and (circuit near4 information) and (identif\$7 near4 subscriber) and (compar\$3 near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:35
S36 3	10	(compar\$3 near4 (path near4 information)) and (un\$\$authoriz\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:44
S36 4	19	(compar\$3 near4 (path near4 information)) and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:48
S36 5	1	"5963555".PN.	USPAT; USOCR	OR	ON	2005/03/23 14:47
S36 6	1	"5963552".PN.	USPAT; USOCR	OR	ON	2005/03/23 14:47
S36 7	733	((path near4 information)) and (identif\$7 near4 subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:48
S36 8	160	((path near4 information)) and (identif\$7 near4 subscriber) and (access\$3 near4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:49
S36 9	137	((path near4 information)) and (identif\$7 near4 subscriber) and (access\$3 adj4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 14:49
S37 0	27	((path near4 information)) and (identif\$7 near4 subscriber) and (access\$3 adj4 server) and (connect\$3 near4 second)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:05
S37 1	1	("6477565").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 14:53
S37 2	432	(compar\$3 near10 (path near4 information))	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:06
S37 3	22	(compar\$3 near10 (path near4 information)) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:14
S37 4	107	(compar\$3 near10 (path near4 information)) and "370"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:08
S37 5	12	(compar\$3 near10 (path near4 information)) and "370"/\$.ccls. and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:12
S37 6	31	(compar\$3 near10 (path near4 information)) and "370"/\$.ccls. and (subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:12

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S37 7	119	(compar\$3 near10 (path near4 information)) and (user near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:22
S37 8	31	(compar\$3 near10 (path near4 information)) and (user near4 information) and "370"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:21
S37 9	1	"6519936".PN.	USPAT; USOCR	OR	ON	2005/03/23 16:18
S38 0	1	"6513038".PN.	USPAT; USOCR	OR	ON	2005/03/23 16:18
S38 1	1	"6351745".PN.	USPAT; USOCR	OR	ON	2005/03/23 16:19
S38 2	8	(compar\$3 near10 (path near4 information)) and (user near4 information) and "709"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/23 16:22
S38 3	2495	((path near4 information)) and (user near4 information) and security	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:23
S38 4	555	((path near4 information)) and (subscriber near4 information) and security	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:23
S38 5	108	((path near4 information)) and (subscriber near4 information) and security and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:24
S38 6	103	((path near4 information)) and (subscriber near4 information) and security and (virtual near4 circuit) and compar\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:30
S38 7	2445	((path near4 information)) and (access\$3 near4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:30
S38 8	1345	((path near4 information)) and (access\$3 near4 server) and (security)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:30
S38 9	243	((path near4 information)) and (access\$3 near4 server) and (security) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:31
S39 0	48	((path near4 information)) and (access\$3 near4 server) and (security) and (subscriber near4 information) and (virtual near3 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:34
S39 1	54	((path near4 information)) and (access\$3 near4 server) and (establish\$3 near4 connect\$3) and (subscriber near4 information) and (virtual near3 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:35

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S39 2	60	((path near4 information)) and (access\$3 near4 server) and (subscriber near4 information) and (virtual near3 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:35
S39 3	50	((path near4 information)) and (access\$3 near4 server) and (subscriber near4 information) and (virtual near3 circuit) and compar\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:40
S39 4	0	((path near4 information)) and (access\$3 near4 server) and (subscriber near4 information)) near10 compar\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:41
S39 5	0	(access\$3 near4 server)and (((path near4 information)) and (subscriber near4 information)) near10 compar\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:41
S39 6	1	((path near4 information)) and (subscriber near4 information)) near10 compar\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:42
S39 7	780	((path near4 information)) or (subscriber near4 information)) near10 compar\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:42
S39 8	81	((path near4 information)) or (subscriber near4 information)) near10 compar\$3) and (access\$3 near4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:42
S39 9	0	((path near4 information)) or (subscriber near4 information)) near10 compar\$3) and (access\$3 near4 server) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 10:43
S40 0	27	((path near4 information)) or (subscriber near4 information)) near10 compar\$3) and (access\$3 near4 server) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 11:18
S40 1	1	("5828846").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/24 11:07
S40 2	210	((path near4 information)) or (subscriber near4 information)) and (compar\$3 near4 receiv\$3)) and (access\$3 near4 server) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 11:18
S40 3	26	((path near4 information)) and (subscriber near4 information)) and (compar\$3 near4 receiv\$3)) and (access\$3 near4 server) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 11:22

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S40 4	61	(((((path near4 information))) and (subscriber near4 information))) and (compar\$3 near4 receiv\$3)) and (access\$3 near4 (server or point)) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:02
S40 5	10	(((((vci or vpi) near4 information))) and (subscriber near4 information))) and (compar\$3 near4 receiv\$3)) and (access\$3 near4 (server or point)) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:04
S40 6	52	((vci or vpi) near4 information) and (subscriber near4 information) and (secur\$6)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:16
S40 7	11	((vci or vpi) near4 information) and (subscriber near4 information) and (restrict\$3 near4 access\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:19
S40 8	2	((vci or vpi) near4 information) and (subscriber near4 information) and (secur\$5 near4 access\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:19
S40 9	32	((vci or vpi) near4 information) and (subscriber near4 information) and (server near4 access\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:25
S41 0	338	weisman.in.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:25
S41 1	1	weisman.in. and (path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:26
S41 2	0	weisman.in. and (vpi and vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:26
S41 3	1	weismann.in. and (vpi and vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:26
S41 4	0	weismann.in. and (path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:26
S41 5	11	weismann.in. and (path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:27
S41 6	67	weismann.in.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:27
S41 7	1	weismann.in. and subscriber.clm.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:27

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S41 8	1	weismann.in. and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:28
S41 9	1	weismann.in. and virtual	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/24 18:28
S42 0	70	(trusted adj3 information) and (path near3 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:40
S42 1	0	(trusted adj3 information) and (path near3 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 10:17
S42 2	35	(trusted adj3 information) and (path near3 information) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 10:18
S42 3	21	(trusted adj3 information) and (path near3 information) and (virtual) and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 10:17
S42 4	3	(virtual near4 path) and (subscriber near4 information) and (compar\$3 near5 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:42
S42 5	238	(virtual near4 path) and (subscriber near4 information) and (compar\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:43
S42 6	146	(virtual near4 path) and (subscriber near4 information) and (compar\$3) and ((first or second) near5 network)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:43
S42 7	59	(virtual near4 path) and (subscriber near4 information) and (compar\$3) and ((first or second) near5 network near4 connect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:58
S42 8	1	"20030039210".PN.	US-PGPUB	OR	ON	2005/03/25 14:52
S42 9	1	"6404769".PN.	USPAT; USOCR	OR	ON	2005/03/25 14:52
S43 0	1	"6259699".PN.	USPAT; USOCR	OR	ON	2005/03/25 14:53
S43 1	1	"5937343".PN.	USPAT; USOCR	OR	ON	2005/03/25 14:53
S43 2	1	"5754529".PN.	USPAT; USOCR	OR	ON	2005/03/25 14:53
S43 3	1	"5130986".PN.	USPAT; USOCR	OR	ON	2005/03/25 14:53
S43 4	127	(virtual near4 path) and (subscriber near4 information) and (compar\$3) and (establish\$3 near4 connect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:59

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S43 5	229	(virtual near4 path) and (subscriber near4 information) and (compar\$3 near4 path) and (establish\$3 near4 connect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 14:59
S43 6	0	(virtual near4 path) and (subscriber near4 information) and (compar\$3 near4 path) and (establish\$3 near4 connect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:00
S43 7	21	(virtual near4 path) and (subscriber near4 information) and (compar\$3) and (establish\$3 near4 connect\$3) and restrict\$3 and permission	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:03
S43 8	25	(virtual near4 path) and (subscriber near4 information)and (establish\$3 near4 connect\$3) and restrict\$3 and permission	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:04
S43 9	0	(compar\$3 near4 path) and (subscriber near4 information)and (establish\$3 near4 connect\$3) and restrict\$3 and permission	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:05
S44 0	0	(compar\$3 near10 path) and (subscriber near4 information)and (establish\$3 near4 connect\$3) and restrict\$3 and permission	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:06
S44 1	111	(information near10 path) and (subscriber near4 information)and (establish\$3 near4 connect\$3) and restrict\$3 and permission	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:06
S44 2	97	(information near10 path) and (subscriber near4 information)and (establish\$3 near4 connect\$3) and restrict\$3 and permission and compar\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:07
S44 3	0	(information near10 path) and (subscriber near4 information)and (establish\$3 near4 connect\$3) and restrict\$3 and permission and (path near10 compar\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:07
S44 4	6	(information near10 path) and (subscriber near4 information)and (establish\$3 near4 connect\$3) and restrict\$3 and permission and (virtual near10 compar\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/25 15:07
S44 5	442	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (path) and (identif\$7 near4 connect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:38

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S44 6	3	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (compar\$3 near4 path) and (identif\$7 near4 connect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:41
S44 7	88	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (information near4 path) and (identif\$7 near4 connect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:42
S44 8	47	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (information near4 path) and (identif\$7 near4 connect\$3) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:50
S44 9	0	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (compar\$3 near4 information near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:50
S45 0	15	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (compar\$3 near10 information near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:52
S45 1	299	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (information near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:53
S45 2	115	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (information near4 path) and compar\$3 and ((first or second) near54 network)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:54
S45 3	32	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (information near4 path) and compar\$3 and ((first or second) near54 network) and (access\$3 near4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 12:56
S45 4	36	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (information near4 path) and compar\$3 and (access\$3 near4 server)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:02
S45 5	759	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (communication near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:02
S45 6	2	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (communication near4 path) and (compar\$3 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:04

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S45 7	1	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (fraud near4 detect\$3) and (compar\$3 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:05
S45 8	1	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (fraud and (compar\$3 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:05
S45 9	291	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (fraud)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:05
S46 0	1	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (fraud and (path near10 compar\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:06
S46 1	1	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (pirat\$3) and (path near10 compar\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:07
S46 2	29	(subscriber near4 (permission or restrict\$3 or permit\$4)) and secur\$6 and (path near10 compar\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:08
S46 3	5	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (path near10 compar\$3) and vpi and vci	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/26 13:08
S46 4	9	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (path near10 compar\$3) and virtual	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 08:43
S46 5	1	("6081263").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 13:49
S46 6	1	("6605122").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 13:49
S46 7	2	((("5450599") or ("5461679"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 14:55
S46 8	3	((("5450599") or ("5461679") or ("4398176"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 15:32
S46 9	2	((("6697966") or ("6806590"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 15:36
S47 0	1	("6718418").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/26 15:36
S47 1	45	(subscriber near4 (permission or restrict\$3 or permit\$4)) and (radius near4 protocol)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 08:55

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S47 2	0	(subscriber) and (compar\$3 near10 path) and (radius near4 protocol)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 08:55
S47 3	34	(subscriber) and (information near10 path) and (radius near4 protocol)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 08:55
S47 4	15	(subscriber) and (information near10 path) and (radius near4 protocol) and compar\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 08:56
S47 5	31	(subscriber) and (information near10 path) and (radius near4 protocol) and virtual	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 09:01
S47 6	1	("6108708").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 09:09
S47 7	1	("6665305").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 09:20
S47 8	0	("(accessnear4server)andsubscriber and(virtualnear4circuit)and(radiusnear4protocol)").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 09:21
S47 9	14	(access near4 server) and subscriber and (virtual near4 circuit) and (radius near4 protocol)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/28 09:31
S48 0	1	("6785228").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 11:52
S48 1	1	("6456623").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/28 11:59
S48 2	1	("6785228").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/29 15:43
S48 3	1	("6456623").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/29 16:47
S48 4	1	("6061650").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/29 17:52
S48 5	1	("6654814").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/29 18:01
S48 6	1	("6693649").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 10:50

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S48 7	2	((("5450599") or ("4398176")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 15:13
S48 8	3	((("5450599") or ("4398176") or ("5461647")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 15:14
S48 9	3	((("5450599") or ("4398176") or ("5461679")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/30 15:14
S49 0	1	("6665305").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/03 18:17
S49 1	1	("6785228").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/04 10:00
S49 2	165	(virtual near4 path) and (subscriber) and un\$\$authoriz\$6	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:38
S49 3	3	(compar\$5 near4 virtual near4 path) and (subscriber) and un\$\$authoriz\$6	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:39
S49 4	8	(virtual near4 path) and (subscriber) and un\$\$authoriz\$6 and (verif\$7 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:40
S49 5	29	(virtual near4 path) and (subscriber) and (verif\$7 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:51
S49 6	23	(compar\$6 near4 path) and (subscriber) and (verif\$7 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:42
S49 7	41	(virtual near4 path) and (subscriber) and (verif\$7 near4 connection)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 10:53
S49 8	16	(virtual near4 path) and (subscriber) and (verif\$7 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:51
S49 9	17	(virtual near4 path) and (subscriber) and (verif\$7 near4 port)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:48
S50 0	71	(path near4 information) and (subscriber) and (verif\$7 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:01
S50 1	60	(path near4 information) and (subscriber) and (verif\$7 near4 source) and compar\$6	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:01

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S50 2	0	(path near4 information) and (subscriber) and (verif\$7 near4 source) and (compar\$6 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:01
S50 3	14	(path near4 information) and (subscriber) and (verif\$7 near4 source) and (compar\$6 near4 virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:11
S50 4	16	"4896313"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:12
S50 5	103	"4896319"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:41
S50 6	22	"4896319" and subscriber and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:13
S50 7	11	"4896319" and subscriber and verif\$7	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:15
S50 8	43	"4896319" and (identif\$7 near4 (user or subscriber))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:15
S50 9	24	"4896319" and (identif\$7 near4 (user or subscriber)) and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:18
S51 0	32	"4896319" and (identif\$7 near4 (user or subscriber)) and path	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:22
S51 1	43	"4896319" and (path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:25
S51 2	12	"4896319" and (path near4 information) and (verif\$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:23
S51 3	13	"4896319" and (path near4 information) and compar\$6	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:24
S51 4	40	"4896319" and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:26
S51 5	27	"4896319" and (authoriz\$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:31
S51 6	119	"4958341"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:31

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S51 7	2	((("4958341") or ("4897874"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/04 13:31
S51 8	35	(virtual near4 path) and (verif\$7 near4 subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:48
S51 9	247	(virtual near4 path) and (subscriber) and (identif\$7 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:51
S52 0	17	(virtual near4 path) and (subscriber) and (identif\$7 near4 source) and (compar\$6 near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 13:52
S52 1	62	(virtual near4 path) and (subscriber near4 information) and (identif\$6 near4 end)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:05
S52 2	29	(verif\$7 near4 source) and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:17
S52 3	38	(verif\$7 near4 terminal) and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:22
S52 4	55	(identif\$7 near4 subscriber) and (verif\$6 near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:23
S52 5	1	(identif\$7 near4 subscriber) and (verif\$6 near4 circuit) and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:24
S52 6	12	(identif\$7 near4 subscriber) and (verif\$6 near4 circuit) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:25
S52 7	5	(identif\$7 near4 subscriber) and (verif\$6 near4 terminal) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:26
S52 8	17	(identif\$7 near4 subscriber) and (authoriz\$6 near4 terminal) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:28
S52 9	2	(identif\$7 near4 subscriber) and (compar\$6 near5 path) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:29
S53 0	6	(identif\$7 near4 subscriber) and (compar\$6 near5 circuit) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:30
S53 1	34	(identif\$7 near4 subscriber) and (check\$3 near4 connection) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:32

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S53 2	8	(identif\$7 near4 subscriber) and (check\$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:33
S53 3	2	(verif\$6 near4 subscriber) and (check\$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:33
S53 4	39	(verif\$6 near4 user) and (check\$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:36
S53 5	4	(verif\$6 near4 end) and (check\$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:37
S53 6	37	(verif\$6 near4 access\$3) and (check\$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:38
S53 7	70	(check\$3 near4 source near4 address\$3) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:38
S53 8	62	(check\$3 near4 source near4 address\$3) and (virtual near4 circuit) and compar\$6	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:40
S53 9	67	(check\$3 near4 source) and (virtual near4 circuit) and (prevent\$3 near4 (access\$3 or autoriz\$6))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:43
S54 0	398	(check\$3 near4 source near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:43
S54 1	0	(check\$3 near4 source near4 circuit) and (compar\$6 near5 (vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:44
S54 2	2	(check\$3 near4 source near4 circuit) and ((vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 14:45
S54 3	8	(verif\$7 near4 source near4 circuit) and ((vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:18
S54 4	29	(verif\$7 near4 source) and ((vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:19
S54 5	75	(verif\$7 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:19
S54 6	16	(verif\$7 near4 source) and (virtual near4 circuit) and masquerad\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:22

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S54 7	23	(verif\$7) and (virtual near4 circuit) and masquerad\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:24
S54 8	76	(verif\$7) and (path near4 information) and masquerad\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:24
S54 9	0	(verif\$7) and (path near4 information) and masquerad\$3 and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:24
S55 0	50	(verif\$7) and (path near4 information) and masquerad\$3 and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:25
S55 1	17	(verif\$7) and (path near4 information) and masquerad\$3 and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:25
S55 2	33	(verif\$7) and (circuit near4 information) and masquerad\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:26
S55 3	17	(virtual near4 circuit) and (prevent\$3 near4 masquerad\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:39
S55 4	10	(pvc or svc) and (prevent\$3 near4 masquerad\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:29
S55 5	9	(compar\$6 near4 path) and masquerad\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:29
S55 6	411	(compar\$6 near4 path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:30
S55 7	10	(compar\$6 near4 path near4 information) and (check\$3 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:31
S55 8	6	(compar\$6 near4 path near4 information) and (verif\$6 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:37
S55 9	0	(compar\$6 near4 (vci or vpi) near4 information) and (verif\$6 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:37
S56 0	20	(compar\$6 near4 (vci or vpi) near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/04 15:38
S56 1	351	(compar\$6 near4 (source near4 path))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 14:45
S56 2	1	"4764919".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:28

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S56 3	1	"4745593".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:29
S56 4	1	"4710613".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:31
S56 5	1	"4707827".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:31
S56 6	1	"4672533".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:32
S56 7	1	"4663754".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:33
S56 8	1	"4475192".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:33
S56 9	1	"6628769".PN.	USPAT; USOCR	OR	ON	2005/10/04 18:33
S57 0	2	("0000006").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/05 14:46
S57 1	1	("6635305").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/05 14:46
S57 2	1	("6665305").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/05 14:46
S57 3	21	(virtual near4 circuit) and (verif\$7 near4 source) and (configur\$6 near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:47
S57 4	5	(virtual near4 circuit) and (verif\$7 near4 source) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:48
S57 5	16	(virtual near4 circuit) and (verif\$7 near4 source) and (masquerad\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:48
S57 6	14	(virtual near4 circuit) and (verif\$7 near4 source) and (imposter)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:49
S57 7	75	(virtual near4 circuit) and (verif\$7 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:53
S57 8	5	(virtual near4 circuit) and (verif\$7 near4 source) and (software near4 updat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 16:50
S57 9	1	(vpi or vci) and (verif\$7 near4 source) and (quer\$4 near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:05

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S58 0	12	"5825750"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:03
S58 1	0	(vpi or vci) and (verif\$7 near4 source) and (intrusion)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:05
S58 2	181	(verif\$7 near4 source) and (intrusion)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:05
S58 3	51	(verif\$7 near4 source) and (intrusion) and (path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:06
S58 4	26	(verif\$7 near4 source) and (intrusion) and (path near4 information) and virtual	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:06
S58 5	18	(verif\$7 near4 path) and (detect\$3 near4 intrusion)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:08
S58 6	8	(verif\$7 near4 path) and (detect\$3 near4 unauthoriz\$6)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:08
S58 7	60	(verif\$7 near4 source) and (detect\$3 near4 unauthoriz\$6)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:08
S58 8	0	(verif\$7 near4 source) and (detect\$3 near4 unauthoriz\$6) and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:09
S58 9	24	(verif\$7 near4 source) and (detect\$3 near4 unauthoriz\$6) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:10
S59 0	162	(verif\$7 near4 subscriber) and (path near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:10
S59 1	11	(verif\$7 near4 subscriber) and (path near4 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:18
S59 2	16	(check\$3 near4 subscriber) and (path near4 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:20
S59 3	92	(check\$3 near4 source) and (path near4 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:20
S59 4	37	(check\$3 near4 source) and (path near4 information) and (virtual near4 circuit) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:25

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S59 5	15	(check\$3 near4 path) and (path near4 information) and (virtual near4 circuit) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:28
S59 6	42	(verif\$7 near4 user) and (path near4 information) and (virtual near4 circuit) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:29
S59 7	1	(verif\$7 near4 port) and (path near4 information) and (virtual near4 circuit) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:30
S59 8	43	(verif\$7 near4 port near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:35
S59 9	330	(check\$3 near4 port near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:35
S60 0	4	(check\$3 near4 port near4 source) and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:39
S60 1	106	(check\$3 near4 port near4 source) and (virtual)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:40
S60 2	78	(check\$3 near4 port near4 source) and (virtual) and path	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:40
S60 3	23	(check\$3 near4 port near4 source) and (virtual) and path and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:41
S60 4	32	(verif\$6 near4 source near4 port)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:46
S60 5	3172	(verif\$6 near4 source)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:47
S60 6	3	(verif\$6 near4 source) and (quer\$4 near5 subscriber near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:48
S60 7	18	(verif\$6 near4 source) and (quer\$4 near5 subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 17:52
S60 8	25	(verif\$6 near4 source near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:05
S60 9	1153	(port near4 identity)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:05

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S61 0	10	(port near4 identity near4 verif\$7)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:08
S61 1	21	(port near4 identity near4 authentica\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:09
S61 2	467	(port near4 authentica\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:10
S61 3	24	(port near4 authentica\$3) and (verif\$7) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:11
S61 4	40	(source near4 authentica\$3) and (verif\$7) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:11
S61 5	9	(virtual near4 circuit near4 authentica\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:13
S61 6	321	(virtual near4 circuit) and (remot\$3 near4 configur\$6)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:13
S61 7	3	(virtual near4 circuit) and (remot\$3 near4 configur\$6) and (verif\$7 near4 subscriber)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:14
S61 8	70	(virtual near4 circuit) and (remot\$3 near4 configur\$6) and (verif\$7 near4 user)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/05 18:31
S61 9	1	("6,061,650").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/06 12:52
S62 0	1	("6525768").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/06 12:52
S62 1	1	("4896319").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 17:11
S62 2	0	(path near4 information) and (virtuit near4 circuit) and (access\$3 near4 server)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:12
S62 3	0	(path) and (virtuit near4 circuit) and (access\$3 near4 server)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:11
S62 4	158	(path near4 information) and (virtual near4 circuit) and (access\$3 near4 server)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:12

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S62 5	78	(path near4 information) and (virtual near4 circuit) and (access\$3 near4 server) and (interfac\$3 near4 information) and (user near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:13
S62 6	69	(path near4 information) and (virtual near4 circuit) and (access\$3 near4 server) and (interfac\$3 near4 information) and (user near4 information) and security	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:16
S62 7	540	(path adj3 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:16
S62 8	60	(path adj3 information) and (virtual near4 circuit) and (user near4 information) and (server near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:20
S62 9	5	(compar\$5 near4 path adj3 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:21
S63 0	234	(compar\$5 near4 path adj3 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:21
S63 1	6	(compar\$5 near4 path adj3 information) and (vci or vpi)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:24
S63 2	113	(path adj3 information) and (compar\$5 near4 source) and (security)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:25
S63 3	6	(path adj3 information) and (compar\$5 near4 source) and (security) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:30
S63 4	11	(path adj3 information) and (compar\$5 near4 source) and (authori\$7) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:31
S63 5	53	(compar\$5 near4 source) and (authori\$7) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:50

EAST Search History

S63 6	0	(compar\$5 near4 source near4 interfac\$3) and (authori\$7) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:32
S63 7	97	"5113499"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:47
S63 8	4	"5113499" and (compar\$6 near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:48
S63 9	22	"5113499" and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:48
S64 0	18	"5113499" and (virtual near4 circuit) and path	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:48
S64 1	4016	(compar\$5 near4 source near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:51
S64 2	0	(compar\$5 near4 source near4 (vpi or vci)) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:51
S64 3	5	(compar\$5 near4 source near4 (vpi or vci))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:52
S64 4	103	(compar\$5 near4 source near4 (interfac\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:52
S64 5	0	(compar\$5 near4 source near4 (interfac\$3)) and (vpi or vci) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:52
S64 6	0	(compar\$5 near4 source near4 (interfac\$3)) and (vpi or vci)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:52
S64 7	0	(compar\$5 near4 source near4 (interfac\$3)) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:53

EAST Search History

S64 8	236	(compar\$5 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 17:54
S64 9	45	(compar\$5 near4 source) and (virtual near4 circuit) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:11
S65 0	236	(compar\$5 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:12
S65 1	20	(compar\$5 near4 source) and (virtual near4 circuit) and (path adj3 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:13
S65 2	394	(compar\$5 near4 source) and (path adj3 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:14
S65 3	13	(compar\$5 near4 source) and (path adj3 information) and vpi and vci	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:16
S65 4	77	(compar\$5 near4 source) and (path adj3 information) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:19
S65 5	0	(compar\$5 near4 source) and (path adj3 information) and authoriz\$6 and (vpi or vci)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:16
S65 6	16	(compar\$5 near4 source) and (path near4 information near4 virtual)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:21
S65 7	2084	(determin\$3 near4 path near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:21
S65 8	106	(determin\$3 near4 path near4 information) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:39
S65 9	1	(determin\$3 near4 path near4 information near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:21

EAST Search History

S66 0	8	(determin\$3 near4 path near4 information) and (virtual near4 circuit) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:22
S66 1	8	(determin\$3 near4 path near4 information) and (virtual near4 circuit) and (compar\$3 near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:23
S66 2	200	(path near4 information) and (identif\$5 near4 virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:39
S66 3	60	(path adj2 information) and (identif\$5 near4 virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:42
S66 4	1209	(path near4 information near4 table)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:42
S66 5	106	(path near4 information near4 table) and (vpi or vci)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:42
S66 6	82	(path near4 information near4 table) and (vpi and vci)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:42
S66 7	13	(path near4 information near4 table) and (vpi and vci) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:44
S66 8	13	(path near4 information near4 table) and (vpi or vci) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:44
S66 9	14	(path near4 information near4 table) and (virtual near4 circuit) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:45
S67 0	83	(path near4 information near4 table) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:45
S67 1	9	(path near4 information near4 table) and (compar\$3 near4 (vpi or vci))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/22 18:46

EAST Search History

S67 2	1	("5884327").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/23 13:11
S67 3	0	("(identif\$6near4subscriber)and(co mpar\$3near4source)and(pathnear4i nformation)").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/23 13:12
S67 4	5043506	(identif\$6 near4 subscriber) an d(compar\$3 near4 source) and (path near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:29
S67 5	6	(identif\$6 near4 subscriber) and (compar\$3 near4 source) and (path near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:30
S67 6	7	(identif\$6 near4 subscriber) and (compar\$3 near4 source) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:32
S67 7	32	(identif\$6 near4 subscriber) and (compar\$3 near4 source near4 address\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:37
S67 8	42	(identif\$6 near4 subscriber) and (compar\$3 near4 source) and security	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:37
S67 9	33	(identif\$6 near4 subscriber) and (compar\$3 near4 source) and security and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:40
S68 0	1	(virtual near4 circuit) and (pre\$\$assign\$3) and (verif\$7 near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:41
S68 1	77	(virtual near4 circuit) and (verif\$7 near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:41
S68 2	29	(virtual near4 circuit) and (verif\$7 near4 source) and subscriber and path	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:44
S68 3	12	(virtual near4 circuit) and (in\$\$coming near4 path) and (compar\$3) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:46

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S68 4	186	(virtual near4 circuit) and (in\$\$coming near4 path)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:47
S68 5	6	(virtual near4 circuit) and (in\$\$coming near4 path) and (compar\$3 near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:47
S68 6	9	(virtual near4 circuit) and (in\$\$coming near4 path) and (verif\$7 near4 source).	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:47
S68 7	10	(virtual near4 circuit) and (in\$\$coming near4 path) and authentica\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:48
S68 8	13	(virtual near4 circuit) and (in\$\$coming near4 path) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:49
S68 9	110	(virtual near4 circuit) and (source near4 path) and authoriz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:49
S69 0	7	(virtual near4 circuit) and (source near4 path) and authoriz\$6 and (compar\$3) and pre\$\$assign\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:52
S69 1	7	(virtual near4 circuit) and (source near4 path) and authoriz\$6 and (compar\$3 near4 address\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 13:54
S69 2	5	(virtual near4 circuit) and (source near4 path) and (verif\$7 near4 subscriber)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:01
S69 3	0	(virtual near4 circuit) and (verif\$7 near4 subscriber near4 path)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:01
S69 4	9	(verif\$7 near4 subscriber near4 path)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:03
S69 5	62	(verif\$7 near4 subscriber) and (path adj3 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:10

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S69 6	17	(verif\$7 near4 subscriber near4 source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:14
S69 7	109	(validat\$3 near4 source near4 address\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:15
S69 8	18	(validat\$3 near4 source near4 address\$3) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:23
S69 9	7	(validat\$3 near4 source near4 address\$3) and (vci or vpi)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:27
S70 0	0	(validat\$3 near4 source near4 (vci or vpi))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:28
S70 1	0	(validat\$3 near4 source near4 (virtual near4 circuit))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:28
S70 2	46	(validat\$3 near4 source near4 (address)) and authoriz\$7	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:41
S70 3	17	(validat\$3 near4 source near4 (address)) and authoriz\$7 and atm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 14:28
S70 4	50	(validat\$3 near4 source near4 (address)) and atm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:06
S70 5	5	(validat\$3 near4 source near4 (address)) and (particular near4 subscriber)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:08
S70 6	44	(path near4 information) and (virtual near4 circuit near4 information) and (interfac\$3 near4 information) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:12

EAST Search History

S70 7	0	(path near4 information) and (virtual near4 circuit near4 information) and (validat\$3 near4 address\$3) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:13
S70 8	34	(path near4 information) and (virtual near4 circuit) and (validat\$3 near4 address\$3) and (subscriber near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:14
S70 9	37	(path near4 information) and (virtual near4 circuit) and (validat\$3 near4 address\$3) and (subscriber)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:14
S71 0	5	(path near4 information) and (virtual near4 circuit) and (validat\$3 near4 source near4 address\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:15
S71 1	19	(path near4 information) and (validat\$3 near4 source near4 address\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:53
S71 2	3	"6788649"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/23 15:53
S71 3	67	("4713806" "5157390" "5168515" "5323452" "5335268" "5450480" "5463682" "5475817" "5537466" "5551035" "5619557" "5644629" "5664102" "5742668" "5748896" "5754639" "5754939" "5774668" "5799153" "5812533" "5825865" "5825869" "5826268" "5828747" "5838970" "5867498" "5881134" "5892946" "5898839" "5907607" "5915008" "5923892" "5940616" "5958016" "5966434" "5991811" "5999965" "6014700" "6041109" "6041117" "6044142" "6044264" "6044368" "6078586" "6085030" "6101616" "6122510" "6134530" "6182109" "6208856" "6209018" "6266406" "6295353" "6321323" "6324275" "6327355" "6330326" "6333931" "6360266" "6363411" "6366657" "6393481" "6418461" "6430600" "6453038" "6564270" "6628769").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/23 15:54

EAST Search History

S71 4	1	("20030208546").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/23 18:53
S71 5	1	("5764899").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 09:44
S71 6	1	("4896319").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 13:38
S71 7	3	((("5113499") or ("20050160289") or ("20010026553")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 09:50
S71 8	97	"5113499"	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 09:50
S71 9	5	"5113499" and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 09:52
S72 0	33	"5113499" and (atm)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 09:54
S72 1	44	"5113499" and virtual	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 09:59
S72 2	75	"5113499" and security	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 10:21
S72 3	36	(validat\$3 near4 circuit) and security and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 10:22
S72 4	1	("20020199002").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 14:02
S72 5	2	((("20020199002") or ("6356934")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 14:49
S72 6	2	((("6445690") or ("6445691")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 14:57
S72 7	2	((("6519657") or ("6519634")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 16:49
S72 8	2	(compar\$3 near4 virtual near4 circuit) and (pre\$\$assign\$3 or pre\$\$stor\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 16:50

EAST Search History

S72 9	99	(compar\$3 near4 virtual near4 circuit)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:02
S73 0	16	(compar\$3 near4 virtual near4 circuit) and authoriz\$6	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 16:53
S73 1	12	(compar\$3 near4 virtual near4 circuit) and security	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 16:54
S73 2	96	(compar\$3 near4 vpi near4 vci)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:02
S73 3	8	(compar\$3 near4 vpi near4 vci) and security	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:04
S73 4	17	(compar\$3 near4 vpi near4 vci) and port and slot	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:20
S73 5	56	(compar\$3 near4 vpi near4 vci) and in\$coming	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:51
S73 6	6	(compar\$3 near4 vpi near4 vci) and in\$coming and (interfac\$3 near4 port)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:22
S73 7	6	(compar\$3 near4 vpi near4 vci) and (in\$coming near4 port)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:23
S73 8	6	(compar\$3 near4 vpi near4 vci) and in\$coming and (pre\$\$assign\$3 or pre\$\$stor\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:27
S73 9	9	(compar\$3 near4 vpi near4 vci near4 in\$\$coming)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:53
S74 0	9	(compar\$3 near4 (vpi or vci)) and (in\$\$coming near4 path)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:56
S74 1	41	(compar\$3 near4 (vpi or vci)) and (in\$\$coming near4 information)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 17:56
S74 2	19	(compar\$3 near4 (vpi or vci)) and (in\$\$coming near4 information) and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:01
S74 3	119	(compar\$3 near4 (vpi or vci)) and (in\$\$coming)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:02

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S74 4	113	(compar\$3 near4 (vpi or vci)) and (in\$\$coming) and path	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:02
S74 5	0	(compar\$3 near4 (vpi or vci)) and (in\$\$coming) and (subscriber near4 index\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:03
S74 6	14	(compar\$3 near4 (vpi or vci)) and (in\$\$coming) and (interfac\$3 near4 information) and subscriber	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:09
S74 7	24	(compar\$3) and (in\$\$coming) and (pre\$\$assign\$3 near4 (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:14
S74 8	0	(compar\$3 near4 pre\$\$assign\$3) and (in\$\$coming near4 (vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:14
S74 9	0	(compar\$3 near4 pre\$\$assign\$3) and ((vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:15
S75 0	151	(compar\$3 near4 pre\$\$assign\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:15
S75 1	0	(compar\$3 near4 pre\$\$assign\$3) and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:15
S75 2	9	(in\$\$coming near4 (vpi or vci)) and pre\$\$assign	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:15
S75 3	56	(in\$\$coming near4 (vpi or vci)) and pre\$\$assign\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:16
S75 4	31	(in\$\$coming near4 (vpi or vci)) and pre\$\$assign\$3 and compar\$6	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:20
S75 5	13	(compar\$3 near4 (vpi or vci)) and pre\$\$assign\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:25
S75 6	1	(compar\$3 near4 (path)) and pre\$\$assign\$3 and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/24 18:25
S75 7	47	(compar\$3 near4 (path)) and in\$\$coming and (vci or vpi)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 10:22
S75 8	1	("20030135581").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/25 11:00

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S75 9	1	("6789170").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/25 11:16
S76 0	13	(compar\$3 near4 identif\$6 near4 path) and in\$\$coming and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:28
S76 1	3	(compar\$3 near4 in\$\$coming near4 path) and (vpi or vci)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:29
S76 2	14	(compar\$3 near4 path) and (in\$\$coming near4 (vpi or vci))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:32
S76 3	53	(compar\$3 near4 in\$\$coming) and (path near4 (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:56
S76 4	14	(compar\$3 near4 in\$\$coming) and (path near4 (vci or vpi)) and pre\$\$assign\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:33
S76 5	1	(compar\$3 near4 path) and (pre\$\$assign\$3 near4 (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:56
S76 6	9	(compar\$3 near4 in\$\$coming) and (pre\$\$assign\$3 near4 (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 11:58
S76 7	15	(compar\$3 near4 in\$\$coming) and (pre\$\$assign\$3 and (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:00
S76 8	0	(validat\$3 near4 in\$\$coming) and (pre\$\$assign\$3 and (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:00
S76 9	0	(verif\$7 near4 in\$\$coming) and (pre\$\$assign\$3 and (vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:01
S77 0	13	(verif\$7 near4 in\$\$coming) and ((vci or vpi))	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:08
S77 1	16	"5974045"	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:54
S77 2	1	"5809012".PN.	USPAT; USOCR	OR	ON	2006/03/25 12:13
S77 3	1	"5799003".PN.	USPAT; USOCR	OR	ON	2006/03/25 12:13
S77 4	1	"5610913".PN.	USPAT; USOCR	OR	ON	2006/03/25 12:13

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S77 5	4	((("6785769") or ("6678791") or ("6799251") or ("6247056")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/25 12:56
S77 6	5	((("6785769") or ("6678791") or ("6799251") or ("6247056") or ("6789170")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/25 12:58
S77 7	187	(customiz\$6 near4 cach\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/25 12:58
S77 8	135	(access adj3 server) and (vpi or vci) and (atm) and (virtual adj circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:22
S77 9	34	(access adj3 server) and (vpi or vci) and (atm) and (virtual adj circuit) and (path near4 information)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:26
S78 0	12	(access adj3 server) and (vpi or vci) and (atm) and (virtual adj circuit) and (path near4 compar\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:25
S78 1	12	(access adj3 server) and (vpi or vci) and (atm) and (path near4 compar\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:26
S78 2	44	(access adj3 server) and (atm) and (path near4 compar\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:27
S78 3	18	(access adj3 server) and (atm) and (path near4 compar\$6) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:27
S78 4	30	(access adj3 server) and (path near4 compar\$6) and (virtual near4 circuit) and security	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:30
S78 5	31	(access adj3 server) and (path near4 compar\$6) and (virtual near4 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/11/29 16:30


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1 [A distributed UNIX system based on a virtual circuit switch](#)



G. W.R. Luderer, H. Che, J. P. Haggerty, P. A. Kirsliis, W. T. Marshall

 December 1981 **Proceedings of the eighth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available: pdf(801.12 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The popular UNIXTM operating system provides time-sharing service on a single computer. This paper reports on the design and implementation of a distributed UNIX system. The new operating system consists of two components: the S-UNIX subsystem provides a complete UNIX process environment enhanced by access to remote files; the F-UNIX subsystem is specialized to offer remote file service. A system can be configured out of many computers which operate either under the S-U ...

2 [Distributed operating systems](#)



Andrew S. Tanenbaum, Robbert Van Renesse

 December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(5.49 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

3 [Design and evaluation of a wide-area event notification service](#)


 August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(1.08 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based

systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provided ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

4 Balancing performance and flexibility with hardware support for network architectures



Ilija Hadžić, Jonathan M. Smith

November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(719.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goals of performance and flexibility are often at odds in the design of network systems. The tension is common enough to justify an architectural solution, rather than a set of context-specific solutions. The Programmable Protocol Processing Pipeline (P4) design uses programmable hardware to selectively accelerate protocol processing functions. A set of field-programmable gate arrays (FPGAs) and an associated library of network processing modules implemented in hardware are augmented with so ...

Keywords: FPGA, P4, computer networking, flexibility, hardware, performance, programmable logic devices, programmable networks, protocol processing

5 Mobile connectivity protocols and throughput measurements in the Ricochet



Microcellular data network (MCDN) system

Mike Ritter, Robert J. Friday, Rodrigo Garces, Weill San Filippo, Cuong-Thinh Nguyen

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(178.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the protocols implemented in the Ricochet MCDN system to provide continuous connectivity to mobile users traveling up to 70 mph. These protocols are general in nature for any frequency-hopping microcell-based system, particularly those that follow the FCC part 15.247 rules [9] and operate in unlicensed spectrum. We also present throughput measurements as a function of velocity and describe a model to predict those numbers based upon the protocols implemented. The MCDN system is a ...

Keywords: MCDN system architecture, Mobility, wireless networks, wireless protocols, wireless routing

6 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(276.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate moving users, changing network topology, and fluctuating link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

7 Trunking of TDM and narrowband services over IP Networks

James Aweya

January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(418.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &l ...

8 Pen computing: a technology overview and a vision



André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

9 A survey of UNI signaling systems and protocols for ATM networks



Burkhard Stiller

April 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.27 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The main aspect covered by signaling systems and protocols for ATM networks concerns the possibility to manage, maintain, and control a user-driven communication between arbitrary ATM end-systems connected to an ATM network. The tasks and procedures defined for, e.g., setting-up an ATM connection, are often very different concerning the irrelevant specifications of various working bodies (such as ITU-T or ATM-Forum) or certain vendors, although the basis to be done for maintaining ATM connec ...

10 Communications networks for the force XXI digitized battlefield

Paul Sass

October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(745.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In striving to meet the increasing demands for timely delivery of multimedia information to the warfighter of the 21st Century, the US Army is undergoing a gradual evolution from its "legacy" communications networks to a flexible internetwork architecture based solidly on the underlying communications protocols and technology of the commercial Internet. The framework for this new digitized battlefield, as described in the DoD's Joint Technical Architecture (JTA), is taken from t ...

11 Comparison of network protocol and architecture for distributed virtual simulation environment



Bu-Sung Lee, Wen-Tong Cai, Stephen J. Turner, Jit-Beng Koh
July 2001 **ACM SIGOPS Operating Systems Review**, Volume 35 Issue 3

Publisher: ACM Press

Full text available: [pdf\(688.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

In any distributed virtual simulation environment, the underlying network architecture and its protocols play an important part in its performance. This paper describes the different underlying protocols used in the support of the RTI implementation in the Federated Simulations Development Kit (FDK). The communication FM and MCAST modules were modified to support different protocols. The performance of two different protocols: TCP and a new Lightweight Reliable Multicast, called Pseudo Reliable ...

Keywords: DIS, FDK, HLA, RTI, RTI-Kit, fast messages, light weight reliable multicast

12 Notable computer networks



John S. Quarterman, Josiah C. Hoskins
October 1986 **Communications of the ACM**, Volume 29 Issue 10

Publisher: ACM Press

Full text available: [pdf\(4.66 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#), [review](#)

Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.

13 Routing as a flow control strategy in an integrated circuit/packet switched communications network



Kenneth R. Hebert, Udo W. Pooch
December 1986 **Proceedings of the 18th conference on Winter simulation**

Publisher: ACM Press

Full text available: [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This research addresses the analysis of an event-driven FORTRAN Simulation Model that simulates a special kind of Computer-Communication network. The network modeled has a circuit-switched communication subnet whose trunk lines carry both voice and data traffic simultaneously. This effort considers the viability of routing strategies as a mechanism for reducing congestion. The performance of seven alternative routing strategies are measured in terms of user-visible metrics. Based ...

14 ATM: retrospective on systems legacy: A retrospective view of ATM



Charles Kalmanek
November 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 5

Publisher: ACM Press

Full text available: [pdf\(222.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

ATM was the focus of active research and significant investment in the early to mid 1990's. This paper discusses several visions for ATM prevalent at the time, and analyzes how ATM evolved during this period. The paper also considers the implications of this history for current connection-oriented technologies, such as optical transport networks and MPLS.

Keywords: ATM, MPLS, flow switching, transport networks

15 Topological optimization of an integrated circuit/packet-switched computer network

Mark J. Kiemele, Udo W. Pooch

January 1984 **Proceedings of the 16th conference on Winter simulation****Publisher:** IEEE PressFull text available:  pdf(1.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a methodology which can be used to optimize the topology of an integrated circuit/packet-switched computer-communication network. This special kind of network possesses a circuit-switched backbone with various packet-switched local access networks feeding into the communications subnet. An iterative, heuristic approach is used to generate a sequence of suboptimal solutions in lieu of one optimal solution. Application of the methodology shows that it is a flexible tool th ...

16 TCP/IP performance with random loss and bidirectional congestion


T. V. Lakshman, Upamanyu Madhow, Bernhard Suter

October 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 5**Publisher:** IEEE PressFull text available:  pdf(287.04 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**Keywords:** ADSL, TCP, buffer management, cable modems, scheduling17 Design and modelling of internode: a mobile provider provisioned VPN

Francisco Barceló, Josep Paradells, Fofy Setaki, Monique Gibeaux

February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1**Publisher:** Kluwer Academic PublishersFull text available:  pdf(237.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the design and architecture of a mobile Provider Provisioned VPN (PPVPN) together with a performance evaluation oriented model that allows first estimates of the VPN set-up delay to be computed. At the same time, some consequences of the discussion can be applied to the design of the VPN configuration parameters. Many different technologies and protocols are used: access is supplied through GPRS or WaveLANs, IP mobility is supported by Mobile IP, and the VPN is based on the I ...

Keywords: IPSec, VPN, mobile IP, mobile VPN, provider provisioned VPN18 Voice over IP Upkar Varshney, Andy Snow, Matt McGivern, Christi HowardJanuary 2002 **Communications of the ACM**, Volume 45 Issue 1**Publisher:** ACM PressFull text available:  pdf(113.77 KB)  html(34.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

How can voice over the Internet claim a greater share of the worldwide phone market from the voice infrastructure dominated for more than 100 years by the public-switched telephone network?

19 Internetworking using switched multi-megabit data service in TCP/IP environments David M. Piscitello, Michael KramerJuly 1990 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 3**Publisher:** ACM PressFull text available:  pdf(862.08 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

TCP/IP based networks were among the earliest and most successful applications of Local Area Network technologies, and TCP/IP-based internets continue to be a testing ground for emerging high performance transmission technologies as well as the distributed processing applications they support. As distributed processing applications become increasingly available in the next decade, consumer demand for high performance transmission services will extend beyond the distance serviceable by LANs; user ...

20 Competitive advantage on the World Wide Web: a webmaster's guide



Merrill E. Warkentin

October 1995 **ACM SIGAPP Applied Computing Review**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(779.01 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

As the importance of the World Wide Web continues to grow, firms are seeking innovative ways to leverage the technology for competitive advantage. Firms are implementing web-based systems for internal and external information dissemination and for digital interactivity, including commerce. This paper highlights some of these uses of the web and addresses managerial and technical considerations when initiating a web site project, both on the server side and client side of the web. The focus is on ...

Keywords: digital commerce, internet security, intranet, web design, web server

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21 [Beyond third generation telecommunications architectures: the convergence of](#)

[internet technology and cellular telephony](#)

Randy H. Katz

 April 1998 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 2
Issue 2

Publisher: ACM Press

 Full text available: pdf(994.41 KB) Additional Information: [full citation](#), [citations](#)

22 [Algorithms and methodologies for new architectures: FlexPath NP: a network](#)

[processor concept with application-driven flexible processing paths](#)

Rainer Ohlendorf, Andreas Herkersdorf, Thomas Wild

 September 2005 **Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05**, **Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(261.77 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

[Publisher Site](#)

In this paper, we present a new architectural concept for network processors called FlexPath NP. The central idea behind FlexPath NP is to systematically map network processor (NP) application sub-functions onto both SW programmable processor (CPU) resources and (re-)configurable HW building blocks, such that different packet flows are forwarded via different, optimized processing paths through the NP. Packets with well understood, relatively simple processing requirements may even bypass the ce ...

Keywords: IP networking, application-specific architectures, dynamically reconfigurable processors, hardware accelerators, network processors

23 [A threaded/flow approach to reconfigurable distributed systems and service](#)

[primitives architectures](#)

L. F. Ludwig

 August 1987 **ACM SIGCOMM Computer Communication Review**, **Proceedings of the**


**ACM workshop on Frontiers in computer communications technology
SIGCOMM '87, Volume 17 Issue 5**

Publisher: ACM Press

Full text available:  pdf(1.19 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper discusses a methodology for managing the assembly, control, and disassembly of large numbers of independent small-scale configurations within large-scale reconfigurable distributed systems. The approach is targeted at service primitives architectures for enhanced telecommunications networks, but can apply to more general settings such as multi-tasking supercomputers and network operations systems.* Study of the methods presented here was a key motivation in f ...

24 Data replicas in distributed information services

 H. M. Gladney


March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In an information distribution network in which records are repeatedly read, it is cost-effective to keep read-only copies in work locations. This paper presents a method of updating replicas that need not be immediately synchronized with the source data or with each other. The method allows an arbitrary mapping from source records to replica records. It is fail-safe, maximizes workstation autonomy, and is well suited to a network with slow, unreliable, and/or expensive communications links ...

25 Pandora - an experimental system for multimedia applications

 Andy Hopper


April 1990 **ACM SIGOPS Operating Systems Review**, Volume 24 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.43 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)


Pandora is a joint project between Olivetti Research Cambridge and the University of Cambridge Computer Laboratory. The project is investigating the use of multimedia workstations in a working environment with particular emphasis on digital video. It endeavours to place a camera on the desktop to make generation of multimedia documents as easy as producing text. We are aiming to produce a number of new applications as well as to provide insights into the way computer systems should be designed.T ...

26 Vision & challenges: A peer-to-peer approach to wireless LAN roaming

 Elias C. Efstathiou, George C. Polyzos

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Publisher: ACM Press

Full text available:  pdf(279.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We make the case for a Global Confederation of Peer-to-Peer (P2P) Wireless Local Area Networks. A P2P Wireless Network Confederation (P2PWNC) is a community of administrative domains that offer wireless Internet access to each other's registered users. The ubiquitous Internet access that the roaming users of these domains could enjoy compensates for their home domain's cost of providing access to visitors. Existing roaming schemes utilize central authorities or bilateral contracts to control acc ...

Keywords: P2P, WISP, WLAN, Wi-Fi, incentives, mixes, privacy, roaming

27 Reusable software components

Trudy Levine

July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4**Publisher:** ACM PressFull text available: pdf(2.45 MB) Additional Information: [full citation](#), [index terms](#)28 A wireless broadband ad-hoc ATM local-area network

K. Y. Eng, M. J. Karol, M. Veeraraghavan, E. Ayanoglu, C. B. Woodworth, P. Pancha, R. A. Valenzuela

June 1995 **Wireless Networks**, Volume 1 Issue 2**Publisher:** Kluwer Academic PublishersFull text available: pdf(1.25 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe the theory, design and ongoing prototyping of a wireless ATM LAN/PBX capable of supporting mobile users with multi-Mb/s access rates and multi-Gb/s aggregate capacities. Our proposed LAN consists of network nodes called Portable Base Stations (PBS) providing microcell coverage. The PBSs are designed to be low-cost, compact and high-speed and can be relocated conveniently. We employ a concept of ad-hoc networking in the layout of the PBS-to-PBS interconnection. That is, the PBSs ...

29 Comparison of signaling loads for PCS systems

Thomas F. La Porta, Malathi Veeraraghavan, Richard W. Buskens

December 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 6**Publisher:** IEEE PressFull text available: pdf(1.72 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)30 Transmission facilities for computer communications

A. G. Fraser, P. S. Henry

October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5**Publisher:** ACM PressFull text available: pdf(855.61 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper presents a brief introduction to architectures and technologies that probably will be used for wide-area communications. It starts with a review of the structure of today's network and some aspects of the *digital transmission* systems that dominate modem networks. Then the status and trends in wide-area transmission technology are addressed, first for the *backbone network* and then for the *local access network*. Local access refers to the transmission systems which c ...

31 On automated message processing in electronic commerce and work support systems: speech act theory and expressive felicity

Steven O. Kimbrough, Scott A. Moore

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4**Publisher:** ACM PressFull text available: pdf(502.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Electronic messaging, whether in an office environment or for electronic commerce, is normally carried out in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could have semantic access to, that is, access to the meanings and contents of, the messages they

process. Given that natural language understanding is not a practicable alternative, there remain three approaches to delivering systems with semant ...

Keywords: electronic commerce, formal language for business communication, speech act theory

32 Integrating E-Commerce and Games

Nizami Cummins

January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 5-6

Publisher: Springer-Verlag

Full text available:  pdf(98.96 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper investigates how many users of commercial interactive systems are not properly agents within the interactive narrative, largely due to the dynamics of branding in cyberspace. Parallels are drawn between the dynamic personalization of e-CRM engines and context aware computing systems. Several seminal games are discussed as examples of systems in which very different relationships exist between users and the system. Arguments are made for designing e-commerce interactive systems that in ...

Keywords: Agency, Brand, Context awareness, E-commerce, Games, Interaction design, Narrative, Simulation, User, e-CRM

33 Host groups: a multicast extension for datagram internetworks



David R. Cheriton, Stephen E. Deering

September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications SIGCOMM '85**, Volume 15 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The extensive use of local networks is beginning to drive requirements for internetwork facilities that connect these local networks. In particular, the availability of multicast addressing in many local networks and its use by sophisticated distributed applications motivates providing multicast across internetworks. In this paper, we propose a model of service for multicast in an internetwork, describe how this service can be used, and describe aspects of its implementation, inc ...

34 Mobile computing in next generation wireless networks



Prathima Agrawal, David Famolari

August 1999 **Proceedings of the 3rd international workshop on Discrete algorithms and methods for mobile computing and communications**

Publisher: ACM Press

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: IMT-2000, cdma2000, mobile computing, wireless data

35 Summary of the 4th International Workshop on Network and Operating System



Support for Digital Audio and Video (NOSSDAV'93)

G. S. Blair, A. Campbell, G. Coulson, N. Davies, F. Garcia, D. Shepherd

April 1994 **ACM SIGOPS Operating Systems Review**, Volume 28 Issue 2

Publisher: ACM Press


Full text available:  pdf(1.11 MB) Additional Information: [full citation](#), [index terms](#)

36 A case study of synthesis for industrial-scale analog IP: redesign of the equalizer/filter frontend for an ADSL CODEC



Rodney Phelps, Michael J. Krasnicki, Rob A. Rutenbar, L. Richard Carley, James R. Hellums
June 2000 **Proceedings of the 37th conference on Design automation**

Publisher: ACM Press

Full text available:  pdf(211.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A persistent criticism of analog synthesis techniques is that they cannot cope with the complexity of realistic industrial designs, especially system-level designs. We show how recent advances in simulation-based synthesis can be augmented, via appropriate macromodeling, to attack complex analog blocks. To support this claim, we resynthesize from scratch, in several different styles, a complex equalizer/filter block from the frontend of a commercial ADSL CODEC, and verify by full si ...

37 Summary of the 4th international workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'93)



G. S. Blair, A. Campbell, G. Coulson, N. Davies, F. Garcia, D. Shepherd
January 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper presents a summary of the fourth International Workshop on Network and Operating System Support for Digital Audio and Video held at Lancaster. The contents of each session (including panel and work in progress sessions) are described and major areas of controversy are highlighted. A complete bibliography of all papers presented is included.

38 The price of selfish routing



Marios Mavronicolas, Paul Spirakis
July 2001 **Proceedings of the thirty-third annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available:  pdf(233.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study the problem of routing traffic through a congested network. We focus on the simplest case of a network consisting of m parallel links. We assume a collection of n network users, each employing a mixed strategy which is a probability distribution over links, to control the shipping of its own assigned traffic. Given a capacity for each link specifying the rate at wh ...

39 Technical papers: concurrency: Software model checking in practice: an industrial case study



Satish Chandra, Patrice Godefroid, Christopher Palm
May 2002 **Proceedings of the 24th International Conference on Software Engineering**

Publisher: ACM Press

Full text available:  pdf(1.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present an application of software model checking to the analysis of a large industrial software product: Lucent Technologies' CDMA call-processing library. This software is

deployed on thousands of base stations in wireless networks world-wide, where it sets up and manages millions of calls to and from mobile devices everyday. Our analysis of this software was carried out using VeriSoft, a tool developed at Bell Laboratories that implements model-checking algorithms for systematically testin ...

40 GIP: an infrastructure for mobile intranets development



Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris

July 2001 **Proceedings of the first workshop on Wireless mobile internet**

Publisher: ACM Press

Full text available: pdf(566.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

The GPRS and UMTS specifications define the procedures supporting the mobility and the data sessions of a mobile user moving within the area of the corresponding PLMNs. For the case, though, of mobile users working in group, using a PLMN infrastructure, the aforementioned networks foresee no special treatment. However, services tightly related to a specific geographic area, like for example security or surveillance services, could be implemented by a group of collaborating Mobile Nodes f ...

Keywords: GPRS, UMTS, mobile intranet

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Terms used

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41 [An integrated admission-degradation framework for optimizing real-time call mix in wireless cellular networks](#)



Gergely Záruba, Imrich Chlamtac, Sajal K. Das

August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**

Publisher: ACM Press

Full text available: pdf(789.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an integrated framework for selecting optimal call mixes (in a multimedia traffic scenario) by bandwidth degradation in a wireless cellular network, to maximize the revenue earned by the service provider. Each admitted call in our framework generates a revenue for the service provider based on the parameters of the call. The sum of the revenues generated by all admitted calls at a time is considered as the total revenue earned in a cell. By degradation, ...

Keywords: admission control, call degradation, cellular systems, framework

42 [Mobility management for hierarchical wireless networks](#)

Guangyu Pei, Mario Gerla

August 2001 **Mobile Networks and Applications**, Volume 6 Issue 4

Publisher:



Advances in high-speed networking

William Stallings

March 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(163.21 KB) Additional Information: [full citation](#), [references](#), [index terms](#)



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 Terms used **path information access server virtual circuit subscriber**

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1 [Papers: Context-agile encryption for high speed communication networks](#)



Lyndon G. Pierson, Edward L. Witzke, Mark O. Bean, Gerry J. Trombley

 January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.43 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#)

Different applications have different security requirements for data privacy, data integrity, and authentication. Encryption is one technique that addresses these requirements. Encryption hardware, designed for use in high-speed communications networks, can satisfy a wide variety of security requirements if the hardware implementation is key-agile, key length-agile, mode-agile, and algorithm-agile. Hence, context-agile encryption provides enhanced solutions to the secrecy, interoperability, and ...

2 [New architectures: Loose source routing as a mechanism for traffic policies](#)



Katerina Argyraki, David R. Cheriton

 August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**

Publisher: ACM Press

Full text available: pdf(135.80 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Internet packet delivery policies have been of concern since the earliest times of the Internet, as witnessed by the presence of the Type of Service (ToS) field in the IPv4 header. Efforts continue today with Differentiated Services (DiffServ) and Multiprotocol Label Switching (MPLS). We claim that these approaches have not succeeded because they require, either explicitly or subtly, a network-layer virtual circuit mechanism. In this paper, we describe how adding a form of Loose Source and Record ...

Keywords: filtering, loose source routing, quality of service, route control, traffic policies

3 [An approach for interconnecting SNA and XNS Networks](#)



Kenneth O. Zoline, William P. Lidinsky

 September 1985 **ACM SIGCOMM Computer Communication Review, Proceedings of the ninth symposium on Data communications SIGCOMM '85**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(1.33 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms

Interest in computer internetworking has resulted from the proliferation of wide area and local area networks. The CCITT, DARPA/DoD, and ISO/ECMA internetworking models, which have become widely accepted for doing this, do not address the pragmatic problem of interconnecting computer networks that are based upon closed-system, vendor-proprietary network architectures. This paper presents an approach for interconnecting private data networks that are based upon IBM's System Network Architect ...

4 Notable abbreviations in telecommunications

Haris W. Barz

April 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 2

Publisher: ACM Press

Full text available: pdf(1.53 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Two years ago I already published the first version of abbreviations - see [1]. Compared to the first edition the number of abbreviations has doubled.

5 IP switching—ATM under IP

Peter Newman, Greg Minshall, Thomas L. Lyon

April 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 2

Publisher: IEEE Press

Full text available: pdf(154.32 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Internet protocol, asynchronous transfer mode, broadband communication, communication system control, data communication, packet switching, protocols

6 A bibliography on performance issues ATM networks

I. Nikloaidis, Raif O. Onvural

October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5

Publisher: ACM Press

Full text available: pdf(1.37 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The Asynchronous Transfer Mode (ATM) is the transport mode of choice for B-ISDN. In order for high speed networks to become a reality, a number of performance issues has to be resolved. In recent years, there has been a growing interest in the literature in developing performance models to explore a wide range of performance problems varying from understanding the performance of a switch architecture to implementing efficient congestion control mechanisms and light weight transport protocols. In ...

7 Design of inter-administrative domain routing protocols

L. Breslau, D. Estrin

August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols SIGCOMM '90**, Volume 20 Issue 4

Publisher: ACM Press

Full text available: pdf(1.43 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Policy Routing (PR) is a new area of development that attempts to incorporate policy related constraints on inter-Administrative Domain (AD) communication into the route computation and forwarding of inter-AD packets. Proposals for inter-AD routing mechanisms are discussed in the context of a design space defined by three design parameters: location of routing decision (i.e., source or hop-by-hop), algorithm used (i.e.,

link state or distance vector), and expression of policy in ...

8 Session A: Routing: On the impact of alternate path routing for load balancing in mobile ad hoc networks

Marc R. Pearlman, Zygmunt J. Haas, Peter Sholander, Siamak S. Tabrizi

November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**

Publisher: IEEE Press

Full text available:  pdf(600.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Alternate path routing (APR) can provide load balancing and route failure protection by distributing traffic among a set of diverse paths. These benefits make APR appear to be an ideal candidate for the bandwidth limited and mobile ad-hoc networks. However, we find that APR's potential is not fully realized in ad-hoc networks because of route coupling resulting from the geographic proximity of candidate paths between common endpoints. In multiple channel networks, coupling occurs when paths shar ...

9 Multilink PPP

George E. Conant

September 1999 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  html(21.14 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

One Big Virtual WAN Pipe: MLPPP gives network managers the power to deliver WAN bandwidth on demand using an array of services


10 Fast restoration of real-time communication service from component failures in multi-hop networks



Seungjae Han, Kang G. Shin

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.96 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For many applications it is important to provide communication services with guaranteed timeliness and fault-tolerance at an acceptable level of overhead. In this paper, we present a scheme for restoring real-time channels, each with guaranteed timeliness, from component failures in multi-hop networks. To ensure fast/guaranteed recovery, *backup channels* are set up *a priori* in addition to each *primary channel*. That is, a *dependable real-time connection* consists of a pr ...

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IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

IEEE STD IEEE Standard

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subscriber, and as much as 640 kbps more in both directions. ... point-to-point network if each **virtual circuit** is defined as a separate logical subnet. ...[www.ssuet.edu.pk/~amkhan/cisco/\(ebook%20pdf\)%20-%20Cisco-CCIE-Fundamentals-Network-Design.pdf](http://www.ssuet.edu.pk/~amkhan/cisco/(ebook%20pdf)%20-%20Cisco-CCIE-Fundamentals-Network-Design.pdf) - [Similar pages](#)[\[PDF\] Internet Routing Architectures, Second Edition.doc](#)

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